JANUARY, 1951

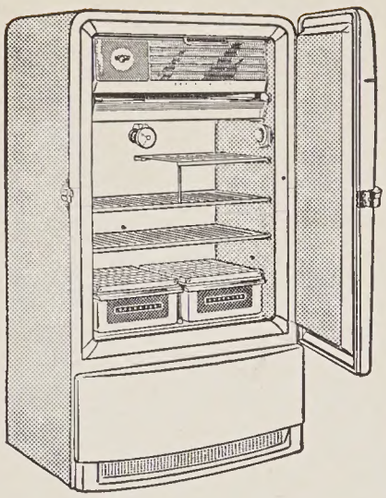
THE Carolina Farmer

- LIVESTOCK PROTECTED BY QUARANTINE — by Dr. C. D. Grinnells
- PLANNING YOUR FARMSTEAD WIRING AND LIGHTING
- WAYNE SAWMILL IS THRIVING BUSINESS

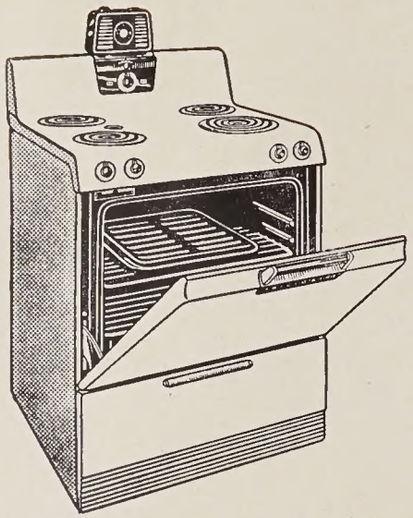
Official Organ
NORTH CAROLINA
Rural Electric Cooperatives

OFFICIAL R/A MAGAZINE

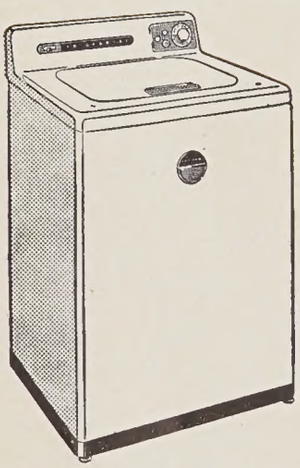
Make your life easier...with these FRIGIDAIRE Home Appliances



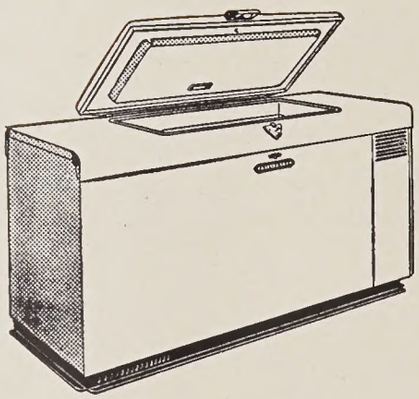
You'll discover how *easy* . . . how *safe* . . . how *economical* food-keeping can be with a new Frigidaire Refrigerator! A wide range of models makes it easy to pick the one that fits your needs. All models give you safe cold from top to bottom—more storage space in less kitchen space—Lifetime Porcelain food compartments and **many more features.** Model shown—7 4/10 cu. ft. MM-74, with full-width Super-Freezer Chest.



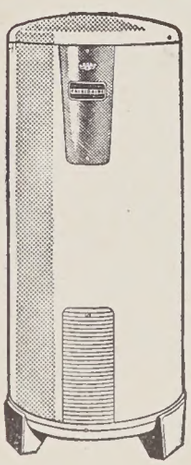
Whether you cook a little or a lot, you *deserve* a Frigidaire Electric Range! All models are packed with features you want—from the low-priced "Thrifty-30" with its full-width Giant Oven (shown) to the DeLuxe Double-oven model RM-75. Every model is equipped with faster-cooking 5-Speed Radiantube Units; all are finished inside and out with Lifetime Porcelain.



Completely automatic washing is yours with a new Frigidaire Automatic Washer. NewSelect-O-Dial washing control lets you pre-select correct washing times for special things like woolens, rayons, nylons, etc. Has exclusive Live-Water Action, Rapi-dry-Spin and many other convenience features. Also see the new Frigidaire Electric Clothes Dryer and Electric Ironer.



Preparing meals is a snap when you have your favorite foods right at hand in your new Frigidaire Food Freezer. All models have extra-thick insulation, sliding storage baskets, counterbalanced tops with built-in interior light and *lots* of other features. Powered by the economical Meter-Miser, the same thrifty refrigerating unit used in Frigidaire Refrigerators.



This Frigidaire Electric Water Heater is completely automatic—set it and forget it. Install it anywhere—no flue needed. Two totally immersed Radiantube Units transmit *all* heat directly to water. Tank protected by 10-Year Replacement Plan. Round and table-top models—30 to 80-gallon sizes.

You can't match FRIGIDAIRE Home Appliances

Refrigerators • Electric Ranges • Automatic Washer
Automatic Electric Clothes Dryer • Electric Ironer • Food Freezers
Electric Dehumidifier • Electric Water Heaters • Air Conditioners
Kitchen Cabinets and Sinks

See your Frigidaire Dealer! Look for his name in Yellow Pages of phone book. Or write Frigidaire Division of General Motors, Dayton 1, Ohio. In Canada, Leaside 12, Ontario.

Now

Cook Faster -- More Economically

with the new

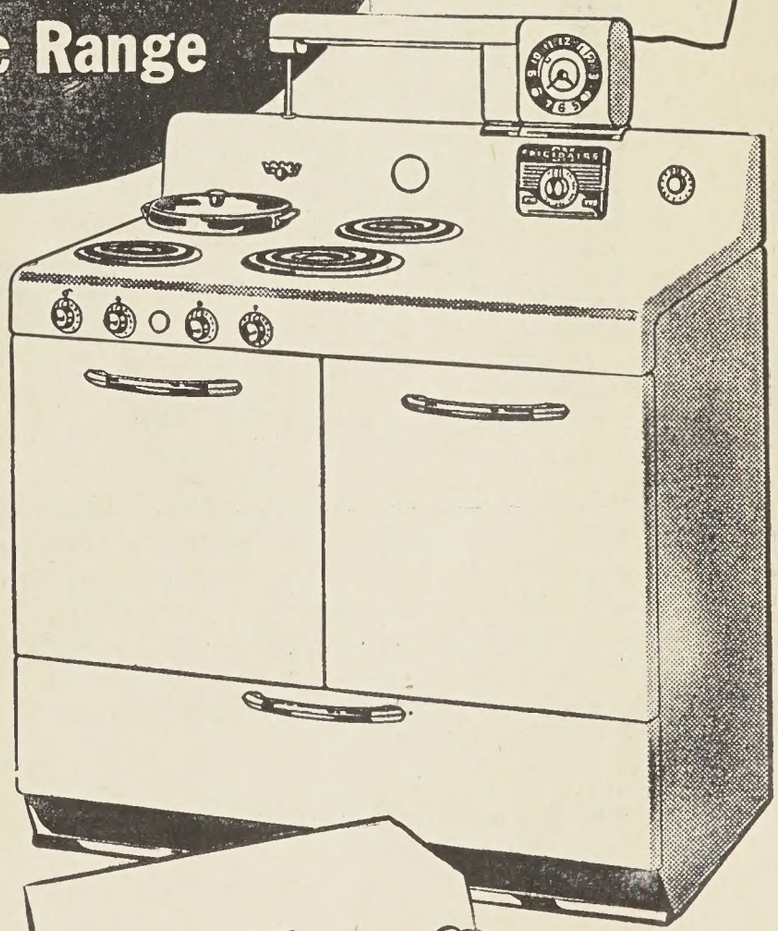
FRIGIDAIRE

Electric Range

Here's why

These New Radiantube Cooking Units

…e the fastest in Frigid-…re history! They're de-…igned to put *more* heat …nto utensils *all over*— …t all 5 cooking speeds— from "simmer" to "high." Cook more evenly, faster; with *less* current. And each unit tips up for quick, easy cleaning.



Faster than ever before—clean, cool and current-saving—that's the new Model RM-27 Frigidaire Electric Range. This completely automatic electric range has Frigidaire's exclusive Cook-Master Oven Clock Control —and many deluxe features that make it the buy of the year in automatic electric ranges.

SEE ALL THESE FEATURES!

- **Lifetime Porcelain inside and out**
- **Acid-Resisting Porcelain Cooking Top**
- **Double-Duty Thermizer**
- **Twin-Unit Even-Heat Oven**
- **High-Speed Smokeless-Type Broiler**
- **Cook-Master Oven Clock Control**
- **Automatic Time-Signal**
- **Fluorescent Cooking-Top Lamp**

EASY TERMS

7 other models to choose from

VISIT YOUR AUTHORIZED FRIGIDAIRE DEALER TODAY—

BROWN'S AUTO SUPPLY CO., INC.
"ANY PART FOR ANY CAR"
SANFORD - JONESBORO - SILER CITY

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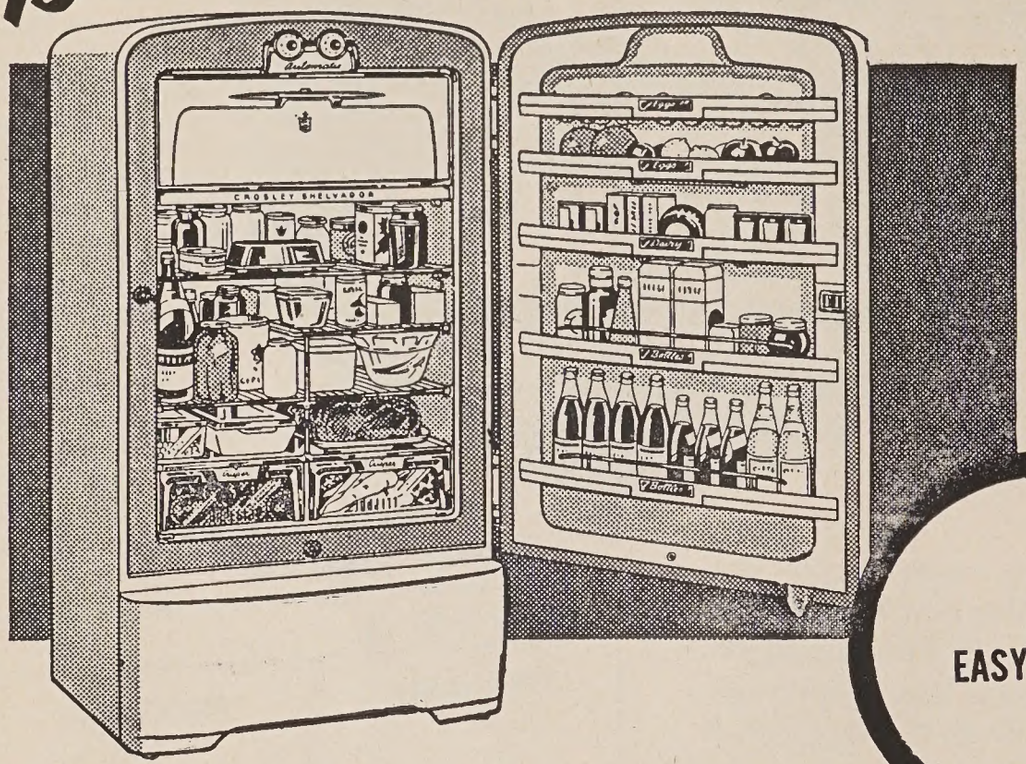
Z-4

Defrosts ITSELF in 2 to 10 Minutes!

1951 CROSLEY SHELVADOR®!



MODEL SAC-9
Capacity
9.5 cubic feet

EASY TERMS

There's nothing else like Crosley **"Care-Free" Automatic Defrosting!** No muss, no fuss, no bother. The sensational new Shelvador Refrigerator defrosts itself automatically —*completely*—so fast that frozen foods don't even begin to thaw! And the exclusive Crosley Worksaver Design gives you *twice as much food where you want it* —in front, in sight, in reach . . . *all* space at the "convenience level"!

Only CROSLEY gives you the SHELVADOR

THE PACE-SETTING DESIGNS ARE COMING FROM CROSLEY!

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Affiliated Stores Located at

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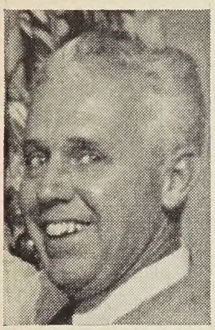
SILER CITY, N. C.
SMITHFIELD, N. C.
WALLACE, N. C.
WENDELL, N. C.
WILSON, N. C.
CONWAY, S. C.
LAKE CITY, S. C.

"CASH IF YOU HAVE IT- - -CREDIT IF YOU NEED IT"

WATTS COOKING
By NICK and the STAFF

CONTENTS

LAST CALL . . . Members of the 27 North Carolina electric distribution systems who are members of the National Rural Electric Cooperative Association should plan now to attend the national convention. On January 29-30-31 and February 1st, delegates from REA financed co-ops all over the United States will assemble in Cleveland, Ohio for the ninth annual convention. Members who will represent the co-ops in North Carolina are urged to secure their hotel reservations early. Last year at Chicago more than 4,000 co-op members from various states attended the convention, the largest to be held. This year an even larger attendance is expected and it is hoped that North Carolina will have its usual fine representation.



"Nick" Nicholson

WASHINGTON MEETING . . . Early in December the president of the North Carolina Rural Electric Cooperative Association, Mr. R. S. Burrus and Mr. J. C. Jones, chairman of the state membership education committee and yours truly attended a meeting in Washington at the invitation of REA administrator Claude Wickard. For four days we listened to carefully selected and noted speakers and took an active part in the lively discussions regarding the important business of keeping you members informed about the function of your business. Eighty representatives of 30 states attended the meetings and at the conclusion of the discussions it was the unanimous opinion of those present that in INFORMED and LOYAL membership is the greatest potential asset a cooperative can have.

The job of helping you members understand your co-op and how it works will be a continuing process. Your co-op considers your understanding of the problems of your business a sound business investment. The management of your co-op is also aware of the fact that you as members are entitled to all the information that your co-op can give you on the proper use of electricity. Soo . . When you hear the term "Membership education," it means a program set up by the management of your co-op for your benefit. Such a program can not be very successful without your help so let your manager or electrification advisor know how you feel about their program and if you would like to help even more, offer suggestions for a better program. You will be surprised how much they will appreciate your interest and cooperation.

NO MORE BIBLES . . . For several months it has been my privilege to present a family Bible to those of our readers who had a need for one and who would request one. It had been my sincere hope that I would be able to keep the offer open indefinitely but it seems that the war in Korea changes many plans. The publisher from whom I purchased the Bibles has exhausted his supply and is not sure when he will print more. For that reason I must reluctantly advise that I will not be able to send any more Bibles. We are mailing out the last of our supply this week.

HAPPY NEW YEAR!

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OUR FRONT COVER

Sixty-thousand bucks swapped hands in Washington last month. On the receiving end was Administrator Claude R. Wickard of REA who accepted the fat check from R. S. Burrus, manager of the Surry-Yadkin EMC of Dobson. Burrus' co-op's total advance payments on their REA loans amounts to $75,916 which we figured rated them the cover position this month. Others witnessing the happy ceremony are Gwyn B. Price, Rep. Thurmond Chatham and Senator Willis Smith.

The Carolina Farmer

Dedicated To Better Rural Living

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SERVING THE MEMBERS OF RURAL ELECTRIC COOPERATIVES IN NORTH CAROLINA

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RED CEDAR

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Timber
Logs
Lumber
Stumpage

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We Pay Highest Cash Prices at Cars

Geo. C. Brown & Co.

GREENSBORO, N. C.

MAIL BOX

Sparta . . . I read with considerable interest your article entitled, "Profits in Sheep." I have had 20 years experience in sheep raising and am still learning. For others I suggest extreme caution as there is a chance to lose some money. I went out of the sheep business once because of an ever present dog which completely wiped out several flocks. Now that we are organized I feel that we are on sounder footing. Yes, there is a profit in sheep. —**Coy Wolfe**

Lansing . . . I am a leading church member of the Baptist church. The Bible that I now have was given to me years ago by a preacher. He has been dead for some time now and he used this same Bible for 50 years. I have taped the back on and the leaves are still falling apart. If you will be so kind as to send me a new one you will not be helping me only but others as well. I will use it as a gift from God.—**Mrs. Ruth Eldreth, Route 1.**

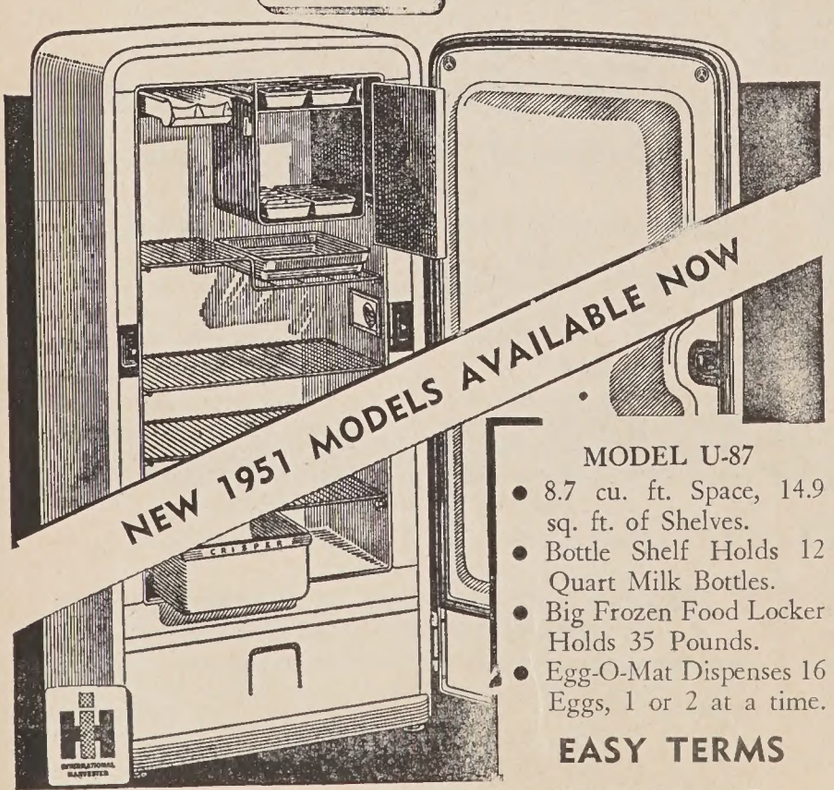
Valle Crucis . . . I enjoy reading your Carolina Farmer. Mother enjoys reading it, too. I am a girl 15 years old and would like very much to have one of your Bibles. I am going to read it through from start to end, and I don't have one of my own. Many thanks for electricity. Mother says she couldn't do all of her washing and ironing without electricity. — **Emogene Main.**

Erwin . . . I enjoy reading the Carolina Farmer but best of all I enjoy the use of our REA electric line service. I attend the annual meetings of our co-op in Dunn and I think we have one of the finest in the state. Hurrah for our REA.—**Mrs. R. E. Strickland, Route 1.**

Ash . . . I read your magazine and like it very much. I have been thinking I would ask for a Bible but have been afraid that the supply would give out. However, you seem to keep on getting more so at last I am going to ask you for one. If you have enough to spare one for me I would appreciate it and thank you so much.—**Mrs. J. L. Mintz, Route 1, Box 60.**

INTERNATIONAL HARVESTER

LOOK... Everything!



INTERNATIONAL HARVESTER REFRIGERATOR

MODEL U-87

- 8.7 cu. ft. Space, 14.9 sq. ft. of Shelves.
- Bottle Shelf Holds 12 Quart Milk Bottles.
- Big Frozen Food Locker Holds 35 Pounds.
- Egg-O-Mat Dispenses 16 Eggs, 1 or 2 at a time.

EASY TERMS

MARKS TRUCK & TRACTOR COMPANY

SALES IH SERVICE

WHITEVILLE, N. C.

MERRITT-HOLLAND CO., INC.

201 Red Cross Street, Wilmington, N. C.

116 N. Cool Spring Street, Fayetteville, N. C.

Z-4

LIVESTOCK PROTECTED BY QUARANTINE

By Dr. C. D. Grinnells
Professor of Veterinary Science

The United States is the healthiest country in the world for livestock. This did not just happen. It is the result of foresight, careful planning and utilization of facts determined by research to prevent the introduction of disease, and disseminating information in regard to disease. This enlarged the group of informed workers in the campaign of control and eradication of disease. Quarantine is one of the simple measures in these campaigns which has been responsible for so much of our success. Quarantine or isolation means limiting freedom of moving animals who have or may have been exposed to communicable diseases, or carriers of infectious material from infected animals or areas. This will prevent direct or indirect transfer of the infectious agents to susceptible animals.

Control Measures Vary

Quarantine measures necessary to control diseases vary, depending on the incubation period of the disease, the type of infection, and the methods of spreading the infection. It's main objective is to block the usual routes of transmission of infected material. This is the purpose of most measures in modern animal sanitation.

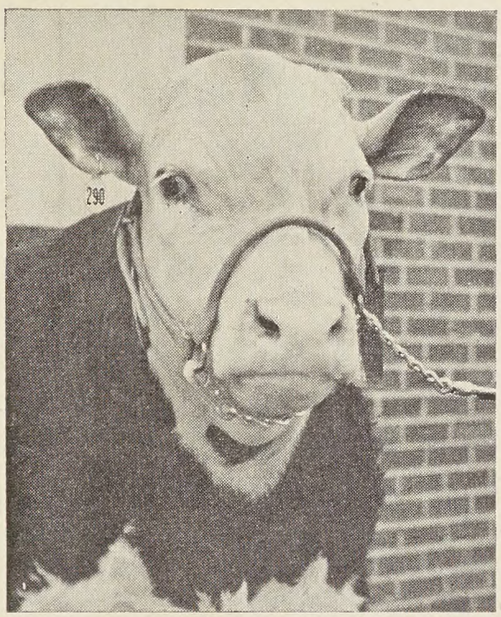
Quarantine can be successful when properly carried out. This has been clearly demonstrated by the National Quarantine Station at Clifton, N. J. It is there that imported animals are in quarantine for varying lengths of time to be sure that they do not carry communicable diseases. During its 50 years of existence no communicable disease has been able to get by this quarantine station.

A quarantine or isolation pen should be easy to clean and disinfect. This does not necessarily mean expensive equipment. Box stalls, wooden stanchions and dirt floors can be cleaned and disinfected. Box stall partitions and wooden stanchions may be scrubbed clean and then disinfected with three or four ounces of creolin to one gallon of water. Three inches of dirt may be removed from a floor and replaced with fresh dirt from the field with good results. This is a much more efficient way of handling soil saturated with animal infections than is the use of disinfectants.

Quarantine Tips

Quarantine or isolation on the farm can be practiced with good results. The following outline will save money, work and make general farm operations more satisfactory.

1. Newly purchased horses and mules should be immediately quarantined in clean, well-bedded, draft-free stalls. In most cases these animals have been exposed to disease in shipping, yarding and in sales barns. Quarantine for a period of 30 days will give these diseases a chance to develop, and in case they do, you will not have exposed all of the stock.



Keep Livestock Healthy And Productive.

2. Cattle recently purchased should always be placed in quarantine or isolation. All possible care should be taken to see that they are from disease-free herds before purchasing. After purchasing, place in quarantine, since the information in regard to their health status may be inaccurate and there is the possibility of exposure during transportation.

Quarantine may be looked upon as a sort of insurance or protection of the original herd. In case a disease condition does appear there is a possibility of control without wrecking the entire herd. A number of good herds have been sold for slaughter because of misplaced confidence in health statements and failure to protect the herd by quarantine.

Quarantine is a valuable weapon in preventing the spread of strangles, influenza, contagious equine, pneumonia, and navel-ill. It also is a value in restricting the spread of brucellosis, tuberculosis, trichomoniasis, homorrhagic septicomia, cowpox, and infectious keratitis or pink-eye in cattle.

Controlling Infections

Quarantine or isolation is also of value in controlling infections in closed flocks or herds, that is, those herds to which no additions are made. In well managed herds pregnant animals are isolated in clean, well-bedded stalls to have their young. This not only gives them a quiet place where they will not be jostled about, but it provides them a clean and disinfected stall. It protects the newborn and in case of evidence of disease—such as dead young or pus-like discharges—the infection is more easily controlled. The litter containing infectious discharges should be hauled directly to a field not inhabited by animals, where the sun, wind and rain will soon destroy them. All dead animals should be buried or thoroughly burned. The stall should be cleaned and disinfected, thus reducing the chance of infecting the rest of the herd. Animals showing the first symptoms of disease should be isolated immediately. Symptoms such as loss of appetite, high temperatures, chills, sweats, nervousness and abnormal discharge should excite the caretaker enough to cause immediate isolation of the affected animal.

Quarantine will help to control diseases in swine. Lack of its use in the management of newly purchased animals has resulted in a total loss in many swine operations. It is of value in controlling hog cholera, swine influenza, brucellosis, and other infectious diseases. A 30-day quarantine will prove effective in controlling most swine diseases. The incubation period for brucellosis has in some cases been as long as 45 days.

Previous to purchasing new stock all possible precautions should be taken to avoid animals of a questionable health status. This may be accomplished by buying from clean herds with up-to-date health certificates and a clean herd health history. Quarantine should be the second line of defense against disease.

Health History Important

The health history of the herd or flock from which you buy is important. The records of herd tests of brucellosis and tuberculosis should be examined. The policy of management is important. Is the herd subjected to a large amount of animal traffic? Or is it a closed herd where the only traffic is in the surplus animals sold? Other sanitary practices in the herd or flock from which you purchase are important. They are a fair index to the amount of infection or of the parasitic infestations one is apt to be bargaining for.

When the proper precautions are taken to avoid the purchase of diseased animals, where care is taken to see that they are transported in clean trucks, and when these precautions previous to purchase are followed by quarantine under sanitary conditions for thirty to forty days the chances of introducing disease into your herd are reduced to a minimum.

PLANNING YOUR FARMSTEAD

PLANNING an adequate wiring system for your farmhouse is the first step in a new adventure for the whole family.

Electricity brings new ways of working and living to the farm. But, unless your wiring system is designed intelligently electric power can often be more of a bother than a help. Perhaps some farm families have found that the new Christmas toaster and percolator, the addition of an upstairs radio or the new freezer, or water heaters in the chicken house, are just too much for the old wiring. Lights dim when the refrigerator starts up, fuses blow out or circuit breakers trip.

Overloaded

The diagnosis is easy; the circuit is overloaded. And the prescription is obvious; add another circuit.

But, like so many other things, this may be easier said than done. If the wiring was originally installed with foresight, the wires from the meter to the fusebox or circuit breaker have ample capacity and there is room for adding another circuit or so to the present protective equipment. But since more of us have hindsight than foresight, in most cases these ideal conditions do not exist.

If you have inadequate-wiring trouble, you'd better get it fixed. Overloaded circuits make it impossible for your appliances to provide good service, they waste electricity, and often constitute a fire hazard.

Check Wiring System

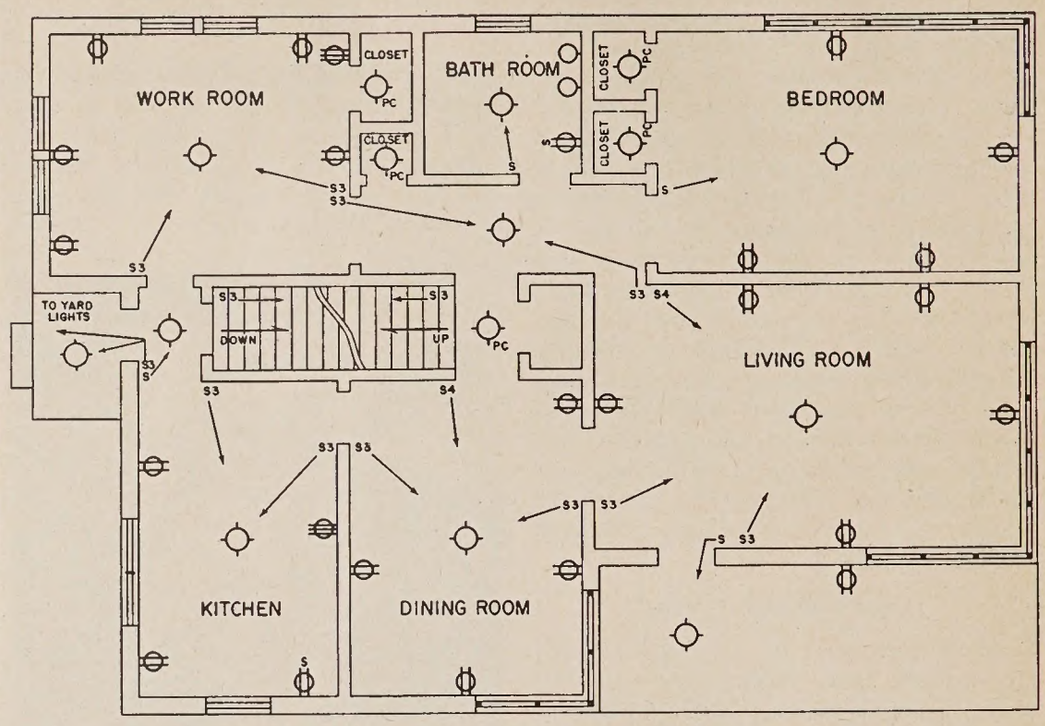
The first thing to do is have a competent electrician look over your present wiring and tell you what to do. He will advise not only the minimum remedy to cure your present trouble, but also tell you what other changes would be advisable now to save you the same trouble and expense later.

The first thing he will check will be the service entrance and feeder equipment. If this doesn't have enough capacity, nothing you do to the rest of the wiring will help much. But in most co-ops the member doesn't have to pay for changes here.

Next your serviceman will look at the protective equipment, the fuse box or the circuit breaker. If he has space for adding another circuit or so, the new installation is simple. But if he doesn't, you will have to add another unit, or replace your present equipment with one somewhat larger. It may be that your specialist's recommendation will be to replace your small fuse box with a larger, more convenient circuit breaker.

New Wiring

Then comes the installation of new wires. Sometimes the present circuits can be divided, with no new outlets. In other cases you will probably want to add new outlets since it is estimated that approximately 95 per cent of electrified homes in the United States do not have enough convenient outlets for present use, to say nothing of future needs.



Floor Plan of a Adequately Wired Farmhouse

Here is a plan of the first floor of a farmhouse. Notice how the owner has located the various switches and outlets. (Other rooms upstairs follow the same general plan.) To pin down your own wiring needs make a rough sketch, similar to this one, of your own home and indicate on it just how many switches and outlets you'll need. Here are some of the things to notice in the layout above, and in your own wiring layout.

1. **There is a three-way switch by every doorway, enabling one to turn on the ceiling lights as he enters the room, and to turn it off as he leaves.**
2. **Heavy-duty outlets (240 volts) are provided in the kitchen for the range, and in the workroom for a water heater.**
3. **The three-way switch at door leading to the back porch controls the light on the porch and the yard light, so that both can be turned on and off for maximum safety and convenience.**
4. **Each room has convenient outlets for efficient use of electricity.**

Speaking of future needs, it might be a good idea for you and the family to list all of the electrical equipment you now have plus the ones you plan to acquire in the years to come. Especially if you are serious about bringing your old wiring up to date.

Bad Wiring Causes Trouble

Your electricity is brought to you and distributed around your farmstead on wires of different sizes, depending on the various uses in which you put the power to work. Unless you plan now for future uses of electricity—which are certain to come—you may find it necessary to rewire part or all of your farm with larger size wires and different circuit arrangements at considerable expense and trouble. Failure to rewire in time may cause motors to burn out, equipment to use more electricity and operate less satisfactory than it should. It may cause electrical trouble and even be extremely hazardous to your family, livestock and property.

That is why looking ahead in wiring is very important. If it is impossible to install a complete new wiring system now, that part which is put in should be installed in such a way that it can be added to, rather than torn out and replaced.

Remember there are many uses for electricity in the home and on the farm. Make sure now that no matter how much electricity you use, and no matter how many pieces of equipment you may someday install, your wiring system will be adequate. It is cheaper and safer to plan early than to rewire later. Some farms have been rewired as many as two or three times within 10 years because of inadequate planning.

Plan Ahead

Planned wiring is the key to better farming. It is fundamental, also, to attaining the objectives of more convenient living conditions in the home. The basic requirements of a well planned wiring system

WIRING AND LIGHTING

Intelligent planning now of your farmhouse wiring system will pay off in comfort and convenience. This article will help you to become better acquainted with the powerful giant electricity and the routes he travels.

are that it shall be safe, adequate, easily expandable and economical.

Safety, the first requirement will be satisfied if the installation is made in compliance with the National Electrical Code.

In addition to having a service entrance of ample size, certainly 100 amperes or more, as adequate farmstead wiring system also provides for:

Enough branch circuits each of the proper size in all buildings; individual branch circuits for all major household appliances; special purpose outlets for motor driven equipment of 2½ horsepower or over served by a 230 volt branch circuit; enough duplex convenience outlets, properly located for smaller plug-in appliances, farm equipment, portable lamps, etc.

Plenty of permanently installed switch controlled lights in buildings and on the farm for good lighting. It reduces eyestrain, helps to prevent accidents and increases efficiency.

Enough switches to control lighting of stairs, silos, mows, etc., from above and below; also others located on the latch side of each frequently used doorway to provide a path of light to and from the job; separate grounding of all permanently installed motors and other electrical equipment.

The typical farm home (see illustrated floor plan) adequately wired is a model of comfort and convenience.

LIGHTING FIXTURES

KITCHEN:

A. Opal glass enclosing globe ceiling fixture. May be had in various sizes. For the average kitchen select a 12-inch globe, and use a 150-watt bulb. For a small kitchen use a 10-inch globe with a 100-watt bulb.

B. Wall bracket with opal glass shade. For use over sink, range and work counter where additional light is needed. Use a 40 or 60-watt bulb.

C. A glass enclosed fluorescent ceiling fixture. Use three 20-watt fluorescent tubes. A shielded fixture with three or four 20-watt tubes, or fewer 30 or 40-watt tubes, is suitable. A total bulb wattage of 80-watts is a good guide for fluorescent ceiling lights. This may be provided by one or more fixtures.

WORKROOM:

A. An inexpensive ceiling fixture of opal glass. Either a 10-inch or 12-inch diameter globe may be used, depending on size of room. Daylight bulbs are recommended where laundry work is done—use 150-watt daylight bulb in 10-inch globe and 200-watt daylight in 12-inch globe.

B. Fluorescent fixture with metal reflector. Use two 20-watt fluorescent daylight tubes. Provides light of excellent quality over washtubs, ironing boards, and work tables.

C. Wall brackets for use at specialized jobs—grinding, grating, and measuring. Use 60-watt bulb.

DINING ROOM:

A. Short suspension fixture with bowl of plastic or decorated glass. Single socket—use 100-watt bulb or 150-watt bulb in bowls of 12-inch and 14-inch diameters. For large dining room, select 16-inch bowl and use a 150-watt or 200-watt bulb. This type fixture fits well into a room with a low ceiling.

B. Semi-indirect fixture with 6-inch-diameter bowls of translucent glass or plastic. Use 60-watt bulbs. Small bowls of clear glass or with applied color or frosting should be avoided, as they produce a harsh glaring light.

C. Designs of wall brackets used mainly for decorative effect. Shades should be of opal glass, plastic, or parchment, which produce a softer light than shades of crystal or frosted glass.

LIVING ROOM:

A. Metal bowl with glass bottom plate. Use 100-watt bulb in 14-inch bowl, one 150-watt bulb in 16-inch diameter bowl.

B. For high ceilings: Fixture with a long suspension chain. Bowl of plastic, glass, or metal. Diameter 14-inch or 16-inch. May be had with three or five sockets. Use three 60-watt bulbs or five 40-watt bulbs.

C. Cluster of shallow bowls of translucent glass or plastic in white, cream, or ivory, 5 or 6 inches in diameter. Use 40 or 60-watt bulbs.

BEDROOMS:

A. For high ceilings, a fixture with a rigid stem or chain support. May be of plastic, glass or metal combined with plastic or glass. Use three 40 or 60-watt bulbs.

B. Glass or plastic shaded fluorescent fixture using two 30-watt or three 15-watt tubes.

C. Dressing table lamps, 18 to 26 inches in height. Shade diameter at bottom, 8 to 10 inches. Shades should be at face height and of translucent white or cream colored material. Use in pairs placed about 30 inches apart. Use 60-watt bulbs.

ELECTRICAL TERMS

Here are a few everyday electrical terms with which you'll want to become familiar. Understanding these terms will help you plan your wiring.

Ampere—An ampere, or amp, is the rate at which a given quantity of electricity flows through a conductor or circuit.

Volt—A volt is a unit used in measuring the electrical pressure causing the current to flow. (Voltage is electric pressure.)

Watt—A watt is a unit of electric power. (1 volt x 1 ampere equals 1 watt.)

Kilowatt—A kilowatt is 1,000 watts.

Horsepower—A horsepower equals 746 watts.

Kilowatt-hour—A kilowatt-hour is a kilowatt of power used for one hour. Electric energy is metered and sold by the kilowatt-hour. It is often indicated kwh.

Circuit—An electrical circuit consists of two or more conductors (wires) making a continuous path for the current to travel from the source of supply to the point where it is used, and return.

Branch circuit—A branch circuit is that part of the wiring system extending beyond the last circuit breaker or fuse.

Circuit breaker—A switch that opens automatically, stopping the flow of current when more electricity flows through the circuit than the circuit is capable of carrying.

Switch—Just as a valve is used to control the flow of water in a pipe, a switch is used to break or permit the flow of electricity in a circuit.

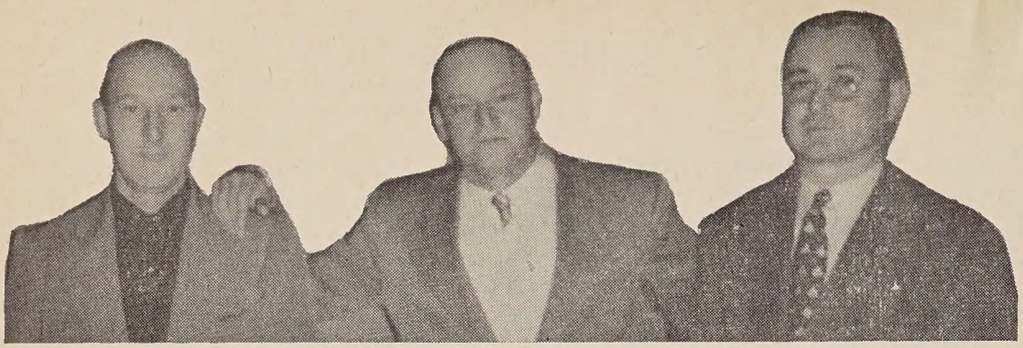
Three-way-switch—A type of switch used to control a light from two points—as at the bottom and top of stairs, at the porch and garage, at house and barn, or at two entrances to a room.

Entrance switch—A special switch for breaking the connection between the building wiring system and the wires leading from the yard pole.

Conductor—A wire used for carrying electric current.

Fuse—A device containing a piece of soft metal which melts and open the circuit when the circuit becomes overloaded.

Grounding electrode—A rod or pipe driven into the earth, to which certain equipment and parts of the wiring system must be connected. Continuous underground water piping is sometimes acceptable as a grounding electrode.



OFFICERS OF NEW STATEWIDE ASSOCIATION

E. R. Crater, center above, is the first president of the recently activated Tarheel Electric Membership Association. Clayton Moretz, left above, will serve as Secretary-Treasurer and C. E. Viverette, right above, is Vice President. Crater is a director of the Davie EMC. Moretz and Viverette are co-op managers.

Tar Heel Electric Membership Association Is Organized By North Carolina Co-ops

A red letter day in the progress of rural electrification in North Carolina was reached on December 19th, 1950. On that day representatives of eleven North Carolina cooperatives placed their final stamp of approval on the formation of a strong new state association. Presenting resolutions from their respective board of directors, the following electric membership corporations became Charter members and seated a representative as a member of the board of directors of the new association:

Pee Dee EMC, Wadesboro; Randolph EMC, Asheboro; Burke-McDowell EMC, Morganton; Blue Ridge EMC, Lenoir; Davie EMC, Mocksville; Davidson EMC, Lexington; Tri-County EMC, Goldsboro; Pitt-Greene EMC, Farmville; Surry-Yadkin EMC, Dobson; Central EMC, Sanford; Roanoke EMC, Rich Square.

Formed for the purpose of presenting the co-op side of the power story in North Carolina the Tarheel Electric Membership Association will also have as its objective a well-planned membership relation program. Close harmony between the member-owners of the electric distribution systems and their manager and directors is a highly desirable function. To bring about a better understanding of the cooperative method of self-help many activities will be designed.

STATE MAGAZINE

An important part of the public relation and membership education program of the new association will be the distribution, to members, of a state magazine. At the organizational meeting your present official REA magazine, THE CAROLINA FARMER, was adopted as the official magazine of the new association. THE CAROLINA FARMER now has the honor of representing both the formal (Tarheel Electric Membership Association) and the informal (North Carolina Rural Electric Cooperative Association) as official publication. This means that members of cooperatives who are members of either of these state organizations may receive this magazine through action of the local board of directors.

TRAVELING CARAVAN

One of the most important services that the new statewide association plans for co-op members is a traveling caravan. This caravan has been described in these columns before and the possibility of having a large tent show for annual meetings has appealed to many. For several months a committee composed of co-op managers has explored the feasibility of such a show and 60 days ago expressed the opinioni that the new state association should attempt such an enterprise. However, with the present national emergency and the necessary cut-backs in materials that might be needed for national defense the whole idea is being re-examined. There is still a possibility that such a show will be produced but not on the same scale as originally planned.

ELECTRIFICATION ADVISORS ATTEND CONFERENCE

Electrification advisors and home economists representing 16 North Carolina cooperatives held their regular quarterly conference in Raleigh, January 9-10-11. Under the supervision of REA field representative Andrew Tessman and REA press and radio specialist Allyn Walters the program covered house wiring and editing. The fact that the subject matter for the conference covered two such opposite subjects as wiring and editing illustrates the varied duties and requirements placed on these important co-op employees.

ELECTRIC

Electrification advisors and home economists hold one of the most important positions in the management of an electric distribution system. It is their job to contact the members and provide information on every conceivable subject that has to do with the use of electricity on the farm and in the farm home. They usually edit the co-op's newsletter as a means of reaching the members. They also hold meetings, plan demonstrations and direct the co-op's all important membership education program. These people who devote their time and energies to the further advancement of your co-op business are entitled to every bit of cooperation the members can give. Let them be of service to you—that is all that they ask. (Pictures of the Raleigh conference will appear in your next issue of this magazine.)

FORMER PRESIDENT OF PEE DEE EMC PASSES

U. Benton Blalock, 77, former president of the Pee Dee Electric Membership Corporation, died at his home in Wadesboro recently. He had been in bad health for a long time.

He was born April 16th, 1873, son of Confederate Captain M. E. Blalock of Stanly County and Mrs. Hettie Blalock. He began his business career in Norwood, North Carolina in 1895, engaging in various activities under the firm name of Norwood Store Company. He moved to Wadesboro in 1906 and immediately entered into the civic affairs of the town and surrounding country.

ELECTRICAL TIP

If Your Bathroom Light Casts A

DON'T think you have to center one fixture over the bathroom mirror. A lamp placed in this position casts shadows on the neck and chin, makes shaving and other close-seeing jobs difficult.

CO-OPS IN ACTION

As president of the Pee Dee Electric Membership Corporation he was instrumental in bringing electric service to a wide area.

REA PERSONNEL CHANGES

William H. Grove, former head of REA's region 1 has returned to his old job. For several months Grove has been on leave of absence from REA. His many friends in North Carolina are delighted to have him back.

Robert S. Broderick who was appointed head of region 1 subject to Mr. Grove's return has been transferred to region 4 as regional head, management division.

Andrew Tessman, field representative for REA's Applications & Loans division has been promoted to the rank of Assistant Head of that division in region 1. In addition to administrative duties Mr. Tessman will devote his time to problems in connection with power use and member education. The Electrification Advisor schools have been under Mr. Tessman's supervision and if the results gained from this activity was used as a yardstick, no wonder he won a promotion. He has our best wishes.

ADVANCE PAYMENTS ON REA LOANS

Senator Willis Smith and Representative Thurmond Chatham together with North Carolina's REA chairman Gwyn B. Price are shown on our front cover this month witnessing an event of great importance. The occasion was the presentation of a check in the amount of $60,000.00 to administrator Claude R. Wickard of REA, as an advance payment on REA loans advanced to the members of the Surry-Yadkin Electric Membership Corporation of Dobson, North Carolina. Robert S. Burrus, co-op manager ise shown proudly making the payment to Mr. Wickard.

The word "subsidy" has been used by those who would like to confuse the public on the matter of REA co-ops. By implication the co-ops have been accused of accepting government funds as a gift with no special iron-clad requirements for repaying the government. To refer to a REA financed co-op as "a subsidized agency of the government" is a gross misrepresentation of the truth. Any well-informed member-owner of such a co-op is aware of the facts. They know that their co-op is owned completely by the members. The government loan is a mortgage on the property. It must be repaid WITH INTEREST to the government in regular scheduled payments.

The Surry-Yadkin Electric Membership Corporation, as an example, has borrowed $2,691,000.00 from the Rural Electrification Administration. With these funds this co-op, under the efficient management of R. S. Burrus, has constructed 1,455 miles of rural distribution line and is now in the process of building more than 100 additional miles of line. Electric service has been made possible for over 6,000 rural families who have become member-owners of the co-op.

The co-op has made payments on the government loan at regular intervals and so far has repaid $224,458.00 in principal and interest. Through good management and efficient operation the co-op has repaid $75,916.00 in advance of the date due.

The 34 North Carolina REA financed electric distribution systems who have secured loans from REA have borrowed over $67,000,000.00 and have repaid almost $11,000,000.00. Of the amount repaid on their loans over $815,000.00 was in advance of the date due. There is not a single cooperative in North Carolina who is delinquent in repaying their REA loans.

REA FIELD STAFF WORKS WITH CO-OP

Technical assistance in the field of management, engineering, finance and application and loans is available to co-op managers and directors through REA's well-organized field services. This service is provided by REA as a protection for the loan and it is the duty of the field personnel to visit the co-ops regularly for the purpose of making reports on their progress and lend any assistance that may be required.

Applications and Loans division of REA has three representatives active in North Carolina. Theirs is the task of gathering facts on the feasibility of loans and after the loans are made they follow up with suggestions and assistance in the formation of a program for the use of electricity by the members. Power use and membership education is handled by this division.

The Engineering division has three qualified electrical engineers in North Carolina who work with the co-ops. This division is interested in the construction procedures of the co-op and is always available for conferences with the co-op manager on this vital phase of co-op operation. Rural construction of electric distribution lines were largely pioneered by REA engineers. It was their job to prove that what the utilities called an impossible job could be done—and done well.

The management division of REA is confined to limited activity in North Carolina. Perhaps this is due to the high calibre of our managers as this division is interested primarily in good sound management as a protection for the REA loan.

The Finance division of REA has a corps of auditors who regularly visit the co-ops for the purpose of auditing the books. On the shoulders of this division rests the responsibility of assisting the co-ops in keeping the proper records.

North Carolina's 45 REA financed co-ops are fortunate to have available to them the assistance provided by these trained field representatives of REA. Their co-operation has been of great benefit to co-op managers and directors through the years. The record of progress shown by North Carolina co-ops is surely a thing that they, too, can point to with pride.

REA field personnel and co-op managers work in close harmony. Shown above is L. T. Gibbs, field engineer (left) with Francis Anora, manager of Tri-County EMC.

FOR THE HOME
ing Shadows and Glare . . .

O install two fluorescent or in-ndescent fixtures—one on each de of the mirror. For shadowless, arefree light, center the lamps 5 feet, 2 inches high and cover em with translucent shields.

. . . The Carolina Homemaker . .

By MISS YORK KIKER, Home Economist

PUT A CHICKEN IN THE POT

Chickens are in plentiful supply. This recipe should set you to thinking of many ways you can please your family by including chicken on your menus.

Chicken Brunswick Stew

Come Democrats, Republicans or the revolution, there should be two chickens in every Brunswick stew pot.

Our colonial ancestors doted on this stew. In Virginia it came into full flower and took the name of Brunswick, a county of that commonwealth. At all-day gatherings outdoors it was a compatriot of barbecue and found social favor because, during the long simmering process in a big black pot, there was adequate time for politicking and oratory, then, as now, favorite Dixie customs. A dozen squirrels flung into an iron pot and left to simmer all day with the chickens and vegetables were an added fillip often missing today when the nut-crackers are mostly confined to parks. Favorite garnishes of Southern stew today are still hushpuppies and cole slaw.

- 2 three-pound chickens
- water to cover
- 2 tablespoons salt
- corn cut from six large ears or 1 No. 2 can whole grains
- 5 medium onions, chopped
- 1 pound okra (optional)
- 2 pounds green peppers, chopped, 2 bay leaves
- 5 pounds ripe tomatoes, peeled and chopped, or 1 No. 2½ can
- ½ pound salt pork (lean)
- 2 pounds lima beans, shelled or 2 pkgs. frozen beans
- 1 tsp. Tobasco, or 1 pod red pepper
- ½ tsp. black pepper

Wash whole chickens, place in large pot, cover with water, add salt, and bring to boil. Reduce heat so that pot simmers. Continue for 1½ to 2 hours until meat begins to separate from bones. Add all vegetables. Slice salt pork down to skin but not through it, add along with vegetables. Add seasonings.

Reduce heat very low until stew barely simmers. Stir frequently so that its does not stick to bottom. Taste, and add more seasoning if desired. In 2 to 2½ hours, the stew will be a perfect blend of chicken meat and vegetables of thick mushy consistency. Remove chicken bones and serve piping hot. Serves about 10.

A TAFFY-PULLING IS JOLLY FUN

When was the last time you had a taffy-pulling? Remember the fun you had when you were a youngster pulling taffy with your favorite beau? This is the nicest time of year to gather in the younger set, turn the kitchen over to them, and let the gang engage in this homey form of merriment. They will have the time of their lives.

Perhaps some would like to make popcorn balls. Have plenty of popcorn on hand so that an ample supply may be made. Popcorn balls may be varied. Make them different with raisins, nuts, or chocolate. They are fun to eat and fun to make.

Round up the friends of your teenagers for an old fashioned candy pulling. Use these recipes and you'll be the most popular parents in the neighborhood.

MOLASSES TAFFY WITH VARIATIONS

1 cup molasses — 1 cup sugar
1 tablespoon butter

Mix ingredients in a two-quart sauce pan. Cook over medium heat until syrup, when dropped in very cold water, separates into threads which are hard but not brittle (270 F.). Stir constantly. Pour into greased cooky pan or platter. As edges cool, fold toward center or they will harden before center is ready to pull. (DO NOT DISTURB THAT PART OF TAFFY WHICH HAS NOT COOLED OR CANDY WILL STICK TO PAN). When candy is cool enough to pull, fold into a ball. Pull with lightly buttered fingers until candy is light in color. Stretch into long rope, ½-inch wide. Cut into 1-inch pieces. Wrap each piece of candy in waxed paper. Makes 1¼ younds.

TAFFY VARIATIONS:

Black Walnut Taffy: Add ½ cup finely chopped black walnuts to syrup just before pouring into greased pan.

Peppermint or Wintergreen Taffy: When taffy is cool enough to handle, make a little hollow in center of taffy. Add 3 or 4 drops oil of peppermint or wintergreen. Form taffy into a ball and pull as given in directions.

MOLASSES POPCORN BALLS

1½ cups molasses — 1 tablespoon butter
¾ cup sugar — 4 quarts popped corn

Combine first three ingredients in a large saucepan. Cook over medium heat until syrup, when dropped in very cold water, separates into threads which are hard but not brittle (270 F., soft crack stage). Stir constantly. Pour syrup over popcorn, stirring to coat each kernel with syrup. When corn is cool enough to handle, shape into balls with lightly buttered hands. Makes 12 to 16 large popcorn balls.

Chocolate Morsel Popcorn Balls: Cook syrup to 265 F. Add 1 package chocolate morsels to popcorn before adding syrup.

Nut-Popcorn Balls: Add ½ cup chopped nuts to popcorn before adding syrup.

Raisin-Popcorn Balls: Add ½ cup of raisins to popcorn before adding syrup.

HANDY HINTS

When there's a stale taste in your ice cubes, don't blame the poor refrigerator. The trouble probably lies in the fact that the trays are harboring food odors. To keep them fresh and sweet, wash the trays frequently with soda and warm water, about 3 tablespoons of soda to a quart of water.

* * *

Onion odor . . . pfft. The annoying stick-fast odor of onions can be quickly removed from hands by rubbing them gently with a paste of baking soda and water. Then wash with soap and water, rinse and dry.

* * *

The Greeks had a word for daughter-in-law trouble — HONEY. The groom's mother gave a jar of it to the bride so her words would always be honey-sweet. Future in-laws, take note!

Mighty Smart Trio

Extra-brief bolero is extra-smart with this back-interesting skirt! You'll love the Mandarin collar, sharp cuffs. Blouse is EASY, make several to change!

Pattern T4702: sizes 12, 14, 16, 18, 20. Size 16 suit, 4⅞ yards 39-inch; blouse 1⅜ yards.

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Send thirty cents in coins for each of these patterns to THE CAROLINA FARMER, Pattern Dept., 232 West 18th St., New York 11, N. Y. Print plainly Name, Address with Zone, Size and Style Number. Send twenty cents in coins for our Spring Pattern Book. Pages of sew-easy patterns for the entire family, plus good fashion hints. A Free Pattern is printed in the book.

ELECTRICITY PUT MONEY IN OUR POCKETS

By Mrs. Beulah Edmisten

Sugar Grove, N. C.

For a number of years my husband and I did not have electricity on our farm. During a part of that time we tried to operate a Grade C dairy. This dairy farm consisted of 18 cows. You can imagine what a difficult job that was. There was so much waste of time and energy, due to inconveniences. Also we could get only the bottom price for our milk, which we felt did not compensate us for our hard labor. Yet we could not expect more under the circumstances.

Later when we purchased a farm that was served with electricity we found the change very wonderful. It wasn't long before we were operating a nice Grade A dairy in an efficient and sanitary manner. The increased proceeds from our milk soon enabled us to afford more of the grand conveniences that electricity makes possible. Truly electricity is a God given blessing.

"I'm Sure Glad to See That Fertilizer in COTTON BAGS!"

Nine out of ten women, according to actual survey by a leading farm magazine, are eager to get cotton fertilizer bags for home sewing. It means extra low-cost sewing material for towels, sheets, pillow cases, slip covers, curtains, and the like. With every ton of fertilizer (20 bags) you get about 25 yards of quality sheeting — a new material for fertilizer bags that increases their re-use value to you.

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PROFIT BY THE SAVINGS!

NATIONAL COTTON COUNCIL
MEMPHIS, TENNESSEE

Rural Industry:

WAYNE SAWMILL IS THRIVING BUSINESS

By BILL CROWELL

Mr. G. Scott, a thick-shouldered, 61 year old Wayne County lumberman has been sawing up, splitting and dressing lumber for nigh on 28 years now. Furthermore, he's looking forward to a few more years of work amid the wild cat shrieks of his two big rip saws and the general hustle and bustle at his rambling sawmill located on Route 1 near Mt. Olive.

Any mention of timber brings a gleam to the hearty old gentleman's eye. He's had more than a quarter-century of experience with timber and wood products and he authenticates his stories and anecdotes of lumbering with quiet facts that bear the unmistakable mark of a man well qualified in his profession. Mr. Scott and his two boys, Elwood and D. L., have been manhandling logs at their Wayne County stand since 1935, the year the business was organized. Elwood has since moved away but D. L. continues at the mill and has earned a favorable reputation as a proficient sawyer.

In 1935 neither the Scotts nor their neighbors which comprised the tiny community known as Scott's Store had electric power. In fact the agency which was later to penetrate the area and bring them electricity was in the first throes of birth. Mr. Scott recalled with quaint reminiscences the manner in which local residents depended on their oil lamps for light and the cherry red oven of a big coal range for heat. Electric power served up in the district today by the Tri-County Electric Membership Corporation, headed by Francis Anora, has played a major role in the organization and progress of the struggling little sawmill Mr. Scott set up nearly 16 years ago. According to Mr. Scott himself, he would have had to call the whole thing off years ago had it not been for electric power.

Portable Rig

Actually Mr. Scott made his first stab at earning a living in the lumber business back in 1922. He learned lumbering by the "seat of his pants" as the saying goes since about all the equipment he could muster at the time consisted of a creaky old portable sawmill and a lot of plain elbow grease. Together with a generous helping of energy and enthusiasm Mr. Scott moved the portable rig throughout Duplin and Wayne counties more than 100 times and, as he described it, "cut an awful lot of timber."

Lumber is one of North Carolina's basic industries. A source of extra income on every farm. Sawmills plus electric power makes it easy for farmers to find a ready market for their timber.

Hard work and diligent attention to business paid off for Mr. Scott. Today he and seven full-time employees operate the mill on a five-day a week schedule. He has given up the practice of soliciting lumber cutting contracts as he once did. With an eye out to past experience Mr. Scott has found it more profitable and practical to saw his customer's own timber to their specifications. He operates a small fleet of trucks which are available on call from farmers and other landowners who want a load of logs carted to the mill for sawing. The logs are cut to order, dressed if requested, and returned to the customer who is billed for the work at a pre-determined rate.

Sawdust

A tremendous mountain of sawdust adjacent to the mill is a silent witness to Mr. Scott's business savvy. However, what to do with the stuff has always posed a problem at the mill. Nobody seems to want it with the possible exception of a handful of farmers who call by infrequently and haul off a load to spread in their pig pens. Otherwise the huge pile grows higher and wider every year.

Since Mr. Scott's mill is so dependent on electric power for efficient operation he is keenly conscious of his co-op's business affairs. Although right now his two big wood saws are powered by oil engines he is looking expectantly to the day when they can be replaced with electric motors. He figures, logically enough, that it's a lot handier to flip a switch to start his mill a running than to wrestle with a sticky engine—especially on a cold morning.

Mr. Scott admits that his two 65 horsepower engines have been giving him pretty good service but that he was still anxious to change over when the co-op provided him with more electric power. Dave Simpson, Electrification Advisor of the Tri-County EMC is engineering plans now to increase the present capacity of Mr. Scott's existing line to allow the installation of larger electric motors. Other motors around the Scott property power an arc welder, drill press, feed mixer, bagging machine, and miscellaneous appliances. These small motors aggregate a load which averages between $5.50 and $6.00 in monthly billing charges. Mr. Scott operates a machine

(See SAWMILL, page 16)

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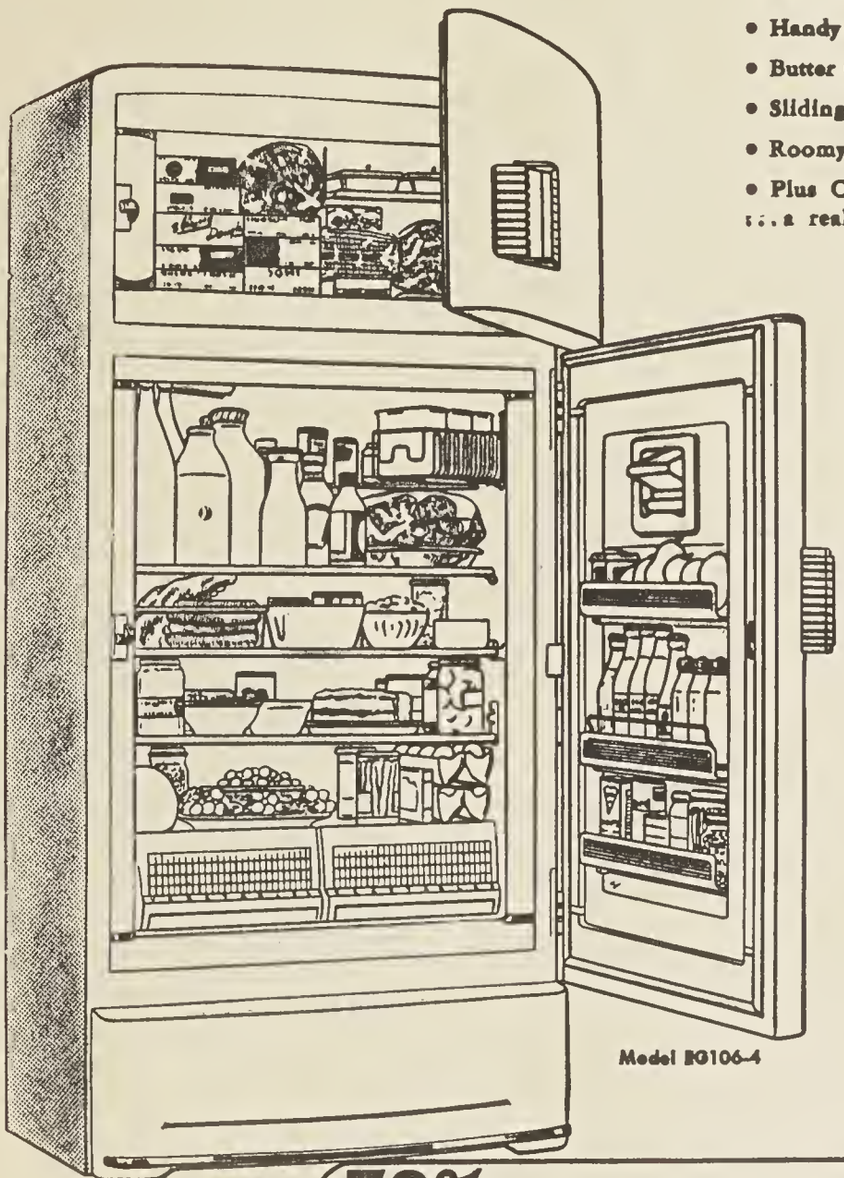

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PUT ON *MOVIES* IN YOUR Community

Our Proven Plan for Business Men, Farmers, Lodges, Schools and Churches

A wonderful Spring and Summer business opportunity! Operate for private income, benefits, building funds. Our plan simple, profitable. *No capital required.* You furnish show location with seating (school, lodge hall, warehouse, etc.). We furnish films, screen, projection equipment, adv. material, tickets. All film, equipment fireproof, underwriter approved. All late talking pictures, westerns, serials available. Arrange for one show only or regular schedule. Old reliable house, now furnishing *hundreds of successful operations.* Write NOW for complete details, give 3 references and present occupation, no obligation.

STEVENS PICTURES, INC.
1302 E. 4th STREET, CHARLOTTE, N. C.

SAWMILL

(Continued from page 14)

shop on the side for the purpose of repairing and maintaining his sawmill equipment.

Mr. Scott and his wife, the former Ella Mitchell, are natives and life long residents of the area. The founder and long time proprietor of Scott's Store, around which the little community was settled, was A. J. Scott, an uncle of Mr. Scott. The two-story structure operated in a nostalgic "general merchandise" atmosphere was erected in 1915. Disregarding minor changes the store appears today just as it did during World War I. Mr. Scott remembers the period vividly.

The Old Ford

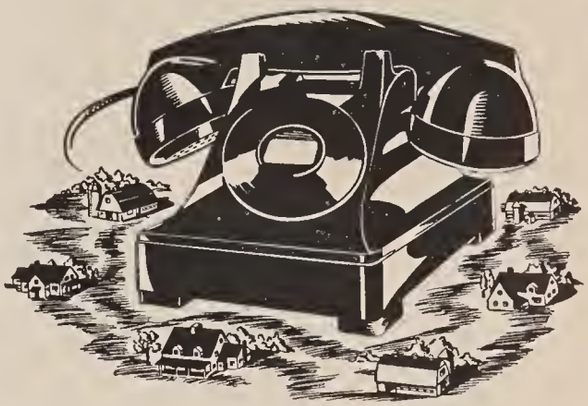
Following the bleak war years the country started to pick up loose ends; tied them together and began a decade of hilarity and fancy living. Mr. Scott, in the early twenties, invested $375, a sizeable sum then, in one of Mr. Ford's famous products—the Model T. For several years he bounced and chugged around the dirt roads of Wayne County in his "tin flivver" seeking out prospects for his saw and ax. After a day's work an evening spent in conversation around the pot-bellied stove in Scott's Store was the high point in the social life of the farmers and businessmen of the area. According to Mr. Scott, that home-spun formula for entertainment hasn't been improved on to any great extent.

Today movies in nearby Mt. Olive provide an infrequent diversion for the Scotts as well as shopping tours into Goldsboro. About the possibility of television in his comfortable farm home Mr. Scott was unenthusiastic. "The service isn't good enough yet," he said. Although he confided that in all probability he would have a set installed as soon as better reception was assured.

At home Mr. Scott's aged mother lives with the family and is looking forward to her 81st birthday soon. The Scott's third child, Mrs. Herman Hargrove, lives a short distance down the highway from her Mom and Dad. With all the Scotts home for Christmas the household rings with the laughter and gayety of 10 grandchildren all of whom are fine boys and girls according to Grandpa Scott.

Scott's Sawmill, a splendid example of initiative and ambition is a credit to a man who started out in busineess with the simple tools of every successful undertaking—an idea, hard work and a never-say-die spirit. Mr. G. Scott's investment in those simple essentials has paid off rather handsomely. His friends and customers will tell you so.

1950 SET NEW RECORDS



in Rural Telephone Expansion

More farm families in the South got new telephones during 1950 than during any other year in history.

The 80,000 poles we erected to extend rural telephone service was a record number, too. So was the 165,000 miles of wire placed in service. Setting these new records required record expenditures of $27,000,000 for new rural facilities for the year.

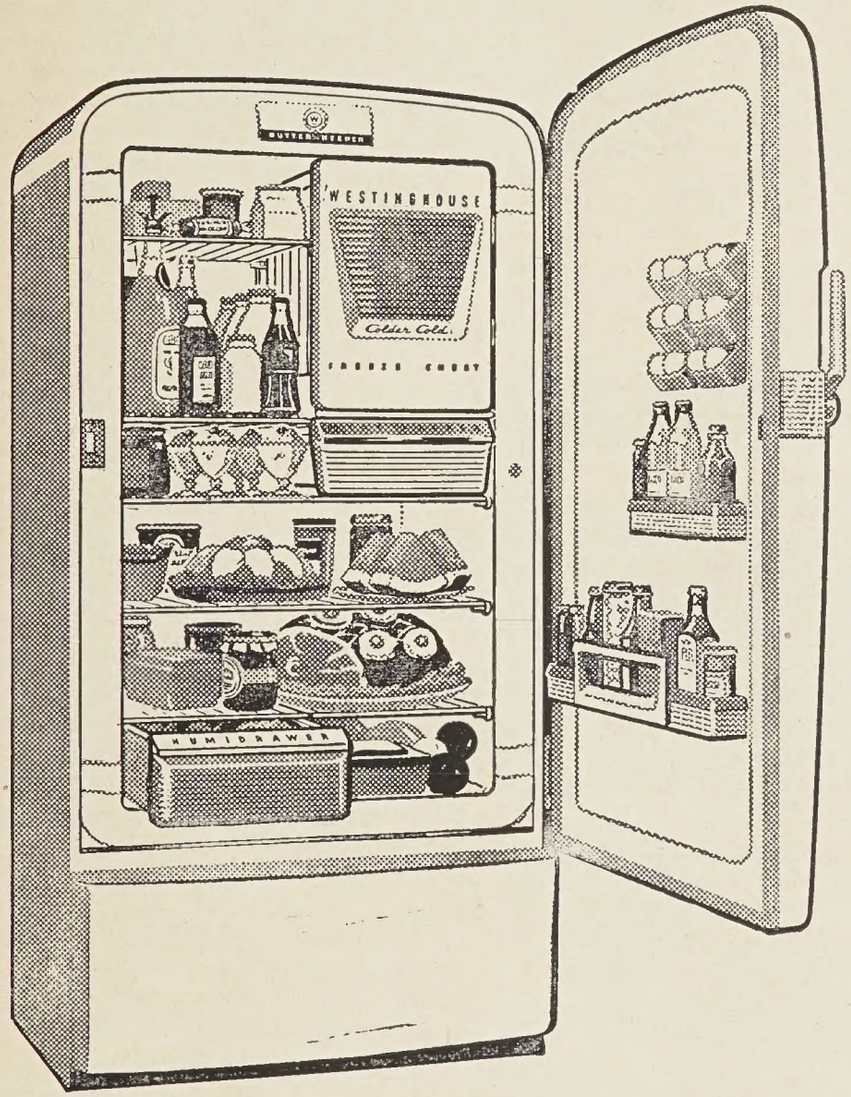
Serving the rural areas of the South is one of our biggest jobs and we're making record progress. It's good telephone service, too—backed by nearly three-quarters of a century's experience, plus the teamwork of the Bell Telephone Laboratories and the Western Electric Company in developing new methods and equipment to make the service still better.

SOUTHERN BELL TELEPHONE AND TELEGRAPH COMPANY

Presenting: THE BIG NEW

1951 Westinghouse

REFRIGERATORS



- **Big 9.0 Cubic Foot Size**
- **Large 36 Pound Freeze Chest**
- **Meat Keeper and Humidrawer**
- **Butter Keeper and Bonus Bottle Space**
- **Exclusive Egg Keeper On Door**

and

You Will Especially Like The

NEW LOW PRICE

$279.95

This Model with all its New and Exclusive Features is actually priced $10.00 lower than the D-9 (a 1949 comparative model) which sold for $287.95—an excellent value.

MECHANICAL UNIT—Exclusive Economizer Mechanism has 20-year record of economical, trouble-free performance. Protected by 5-year Unit Replacement Contract.

SEE US FOR LIBERAL TERMS — PAY THE EASY WAY

TODD FURNITURE COMPANY
"QUALITY FOR LESS"
WHITEVILLE, N. C.

JOHNSON FURNITURE COMPANY
"FURNITURE FOR EVERY ROOM - FOR EVERY HOME"
DUNN, N. C.

2-4

Editorially Speaking

REA Co-op Leadership In Rural Electrification Responsible for North Carolina's 88.6 Average

Electric power is now provided for 88.6 per cent of North Carolina's farms and rural homes. The national average for rural electrification by states is 86.3 per cent. So, those agencies who provide rural North Carolina with power have every reason to be proud of their job.

The people who point with greatest pride to this record of accomplishment are representatives of the private utilities. To hear them tell the story of rural electrification in North Carolina the REA-financed co-ops have had very little to do with it. According to the utilities, the lines would have been built anyway and the activities of the REA co-ops in the field of rural electric distribution is just another example of Communism. The facts do not bear this out.

In 1935 only 3.2 per cent of North Carolina's farms had electric service available. These were mostly located in densely populated rural areas and along the principal highways. In addition to being located where they could easily be reached by the power line these lucky few farmers were also required in most cases to buy electrical appliances enough to use a definite required amount of electricity each month so that the power company could be assured of a profit. They were also required to "underwrite" the construction costs to their homes as a further protection for the power company. Little or no effort was made in 1935 by the power companies to serve the farm homes in the sparcely settled areas. As a result the REA-financed co-ops were organized.

When the Rural Electrification Administration began making loans to members of local rural electric distribution systems over 15 years ago there were less than 5,000 miles of rural lines in the state. Since that time and through June of 1950 more than 70,000 miles of line have either been constructed or authorized. REA-financed co-ops are credited with 38,000 miles while private utilities have accounted for 30,000 miles.

Today over half of the rural electric distribution lines in North Carolina were constructed by members of REA-financed cooperatives. These members waited until there was no doubt as to the intentions of the power companies and it became apparent that if they were to have power on their farms, they would have to provide it for themselves. The power companies have obstructed their efforts from the beginning.

The cold, hard fact is that today the REA-financed lines are taking power into the homes of farm people who would otherwise never have received this essential service. It is apparent from the record that the REA co-ops have carried their share and more of the load. An interesting fact is that the REA-financed co-ops constructed over half the existing power lines to reach only one-third of North Carolina's rural consumers.

No doubt the activities of the power companies were spured on by the action taken by the members of the REA co-ops. But even if they had continued at their present rate of construction without the proding of the co-ops, the power companies would have served only 67 per cent of the farm area.

There are still 32,844 farms and rural homes without electric power in North Carolina. This is a challenge to both the co-ops and the power companies. The co-ops are doing something about this vast unserved area. To reach these unserved farm people the REA-financed co-ops have authorized and under construction 5,195.06 miles of line. The power companies are building or plan to build 1,034.17 miles of line. Five times as many miles of line by the co-ops than the power companies is the co-op answer to North Carolina's need for complete rural electrification.

OUR DEMOCRACY—by Mat
"The first requisite of a good citizen is that he shall be able and willing to pull his weight."
THEODORE ROOSEVELT
GOOD CITIZENS PULL THEIR WEIGHT WHEN THEY GIVE THEIR BEST TO THEIR WORK AND WHEN THEY DO THEIR INDIVIDUAL SHARE IN NEIGHBORHOOD AND FAMILY ACTIVITIES.
THEY PULL THEIR WEIGHT WHEN THEY SPEAK AND ACT FOR THEIR CONVICTIONS.
AND THE GOOD CITIZEN'S ACCEPTANCE OF RESPONSIBILITY FOR "PULLING HIS WEIGHT" IN PROVIDING FINANCIAL SECURITY FOR HIMSELF AND HIS FAMILY IS THE GREATEST FACTOR IN THE STRENGTH AND STAMINA OF OUR DEMOCRACY.
HUBERT MATHEWS

DEFENSE PRODUCTION ABSORBING METALS

Day to day changes in the construction material shortage picture reflect the nation's stepped-up defense program. Newest development affecting rural electrics in the National Production Authority's policy of giving REA power to allocate all copper to be used for rural electric conductors. This announcement followed on the heels of the news that civilian users must reduce copper consumption 15 per cent in January and February, and 20 per cent in March, based on average quarterly use the first half of 1950.

Although REA may not welcome the job of telling rural electric systems who will get how much conductor to meet expanding power loads, it would rightly consider itself far more qualified to spread the thin supply out over the field than an agency with less knowledge of systems' needs.

FARMER A CAPITALIST

"The farmer owns a piece of democracy. He is a capitalist. He invests his money in land, buildings and livestock; he employs labor, he pays taxes on his operations, and like any other businessman, his success or failure depends upon his management skill.

"Agriculture is the biggest privately-owned business in the United States. Six million farmers own small businesses valued at more than ninety billion dollars.

RESPONSIBILITY TO YOUTH

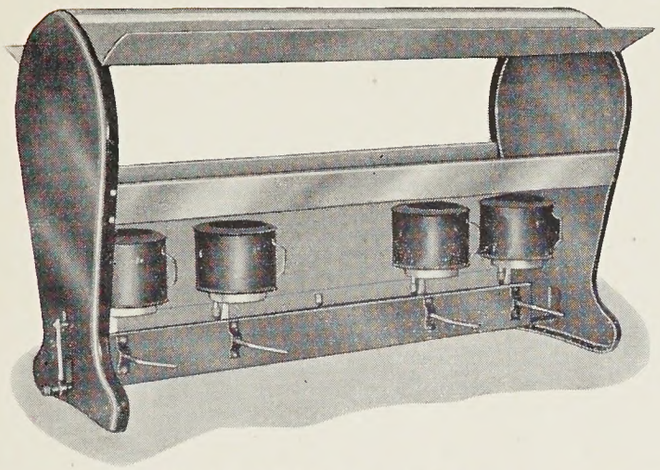
"This great agricultural industry has been built up on the resourcefulness, the dogged determination and the Christian character of our country people.

"It's future will depend on the resourcefulness, the determination and the Christian character of our country people.

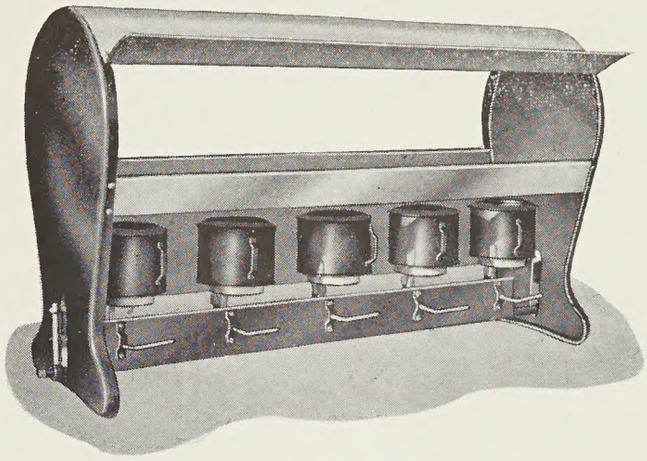
"And if the parents and leaders in our education and agriculture should fail to place within the grasp of farm youth an opportunity to succeed and live well on the land, we stand, as a State and as a Nation, to lose those fine virtues which have made America great and on which we must depend if America is to survive the awful turmoil now raging 'round the world."

THE NEW 1951 HENRY VANN MODELS PROVIDE

- A TOBACCO CURING SYSTEM TO FIT ANY BARN SIZE
- PLUS CONTROLLED VENTILATION

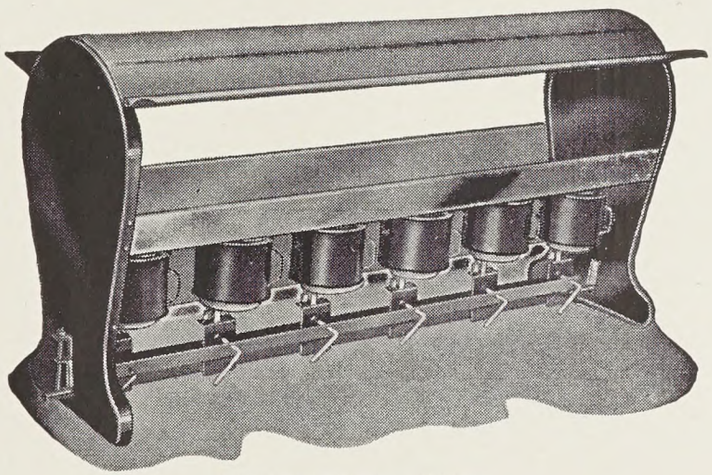


FOUR BURNER UNITS
12′ X 12′ BARN — 4 UNITS



FIVE BURNER UNITS
14′ X 14′ BARN — 4 UNITS
18′ X 18′ BARN — 6 UNITS

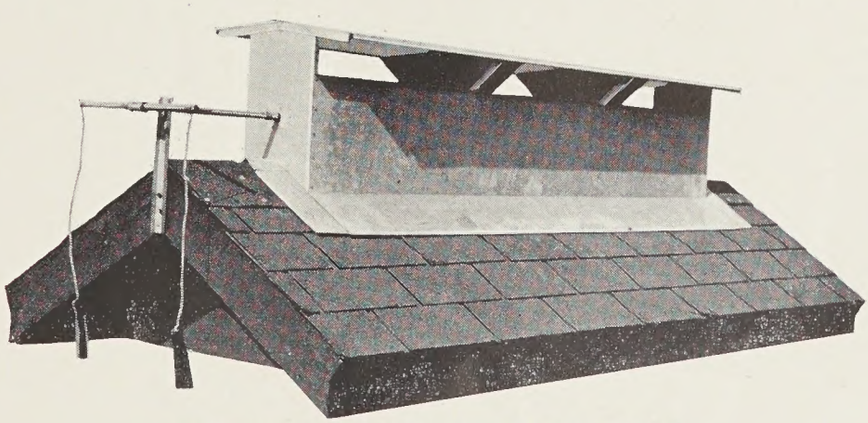
All units have the famous "Quick Heat" features that have made the Henry Vann Curing Systems the choice of tobacco farmers everywhere.



SIX BURNER UNITS
16′ X 16′ BARN — 4 UNITS
16′ X 20′ OR 20′ X 20′ BARNS — 6 UNITS

Engineering advances in design for 1951 makes the Henry Vann Curers the most efficient and easily operated curers on the market today.

Controlled ventilation is recommended by N. C. State College Tobacco Specialists.



HENRY VANN VENTILATOR

The Henry Vann controlled ventilator is designed to last for years.

Visit Your Local Dealer and See the Complete Henry Vann Line for 1951

Henry Vann Industries, Inc.

Manufacturers

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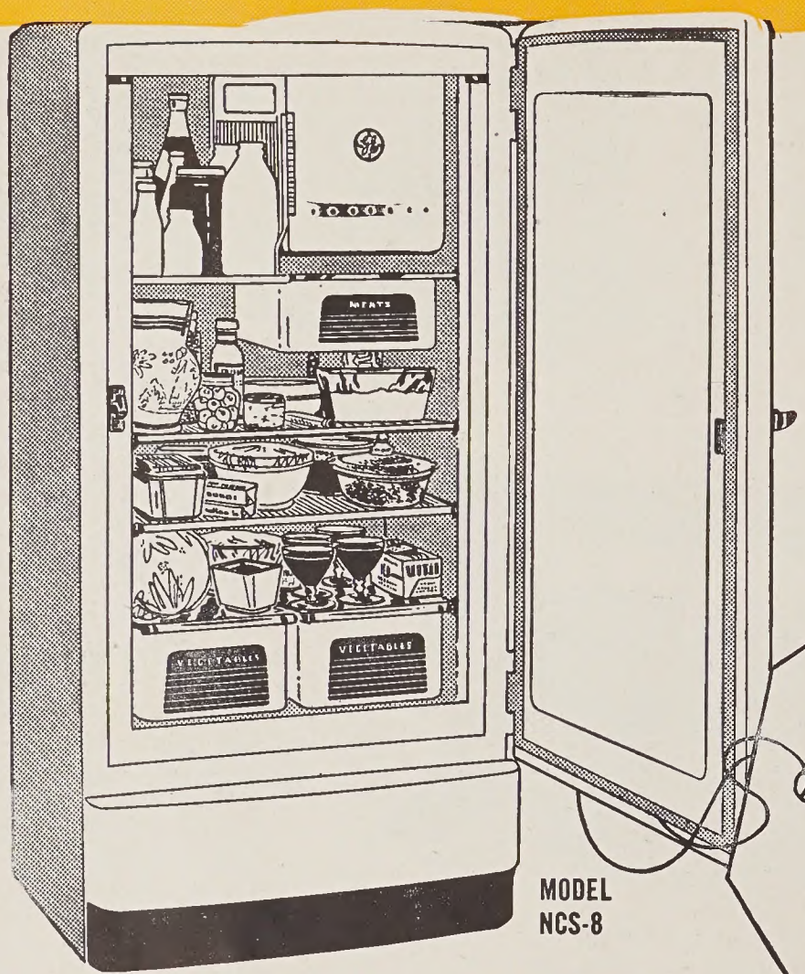
GENERAL ELECTRIC



MODEL
NCS-8

BIG!

More than 8 cu ft of refrigerated food-storage space . . . Full 14 sq ft of shelf area . . . Plenty big for *big* families.

DE LUXE!

Packed with food-saving, trouble-saving features . . . Two fruit and vegetable drawers hold ⅔ bushels . . . Spacious, deep meat drawer . . . Stainless-steel freezer holds 24 lbs of frozen foods . . . New aluminum shelves . . . Plenty of tall-bottle storage.

NEW 1951 MODELS
ORDER YOURS NOW
Be Sure and See the Complete GE Line and Make Your Selection NOW.

REFRIGERATORS

PURDIE EQUIPMENT COMPANY, INC.

DEPENDABILITY
MORE THAN 2,700,000 G-E REFRIGERATORS IN SERVICE 10 YEARS OR LONGER!

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